1. General Description

A: SPECIFICATION

Tire size			P205/60R16 P215/50R17	P225/50R17 P225/45R18	P225/60R17 P215/70R16
Front	Wheel arch height (Tolerance: +12 mm24 mm (+0.47 in0.94 in)) mm (in)		403 (15.9)	395 (15.6)	469 (18.5)
	Camber (Tolerance: ±0°45' Differences between RH and LH: 45' or less)		-0°30′	-0°15′	0°00′
	Caster (Referential Value)		5°55′	6°00′	5°05′
FIOIIL	Steering angle (Tolerance: ±1.5°)	Inner wheel	37.6°	37.4°	38.4°
		Outer wheel	33.3°	33.0°	34.1°
	Toe-in mm (in)		1±3 (0.04±0.12) Toe angle (sum of both wheels): $0^{\circ}05'\pm0^{\circ}15'$		
	Kingpin angle (Referential Value)		14°00′	14°15′	12°20′
Rear	Wheel arch height (Tolerance: +12 mm _{-24 mm} (+0.47 in _{-0.94 in}))	mm (in)	392 (15.4)	387 (15.2)	474 (18.7)
	Camber (Tolerance: ±0°45' Differences between RH and LH: 45' or less)		-1°00′	-1°10′	0°00′
	Toe-in mm (in)		*2 *1		*1
	Thrust angle (Tolerance: ±0°30′)		0°		

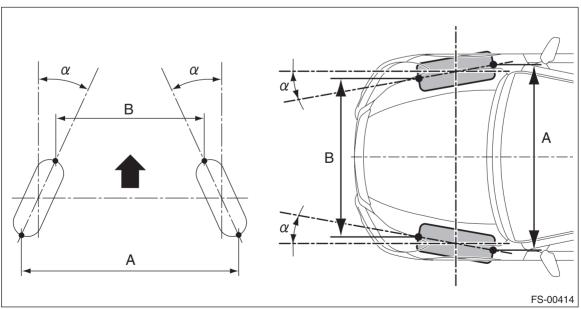
^{*1:} OUTBACK model

2 \pm 3 mm (0.08 — 0.12 in) Toe angle (sum of both wheels): $0^{\circ}10'\pm0^{\circ}15'$

 0 ± 3 mm (0 ± 0.12 in) Toe angle (sum of both wheels): $0^{\circ}\pm0^{\circ}15'$

NOTE:

- Front and rear toe-in and front camber can be adjusted. Adjust if the toe-in or camber tolerance exceeds specifications.
- Other items indicated in the specifications is not equipped with adjustment mechanisms. If other items exceed specifications, check the suspension parts and connections for deformation. If defective, replace with new parts.

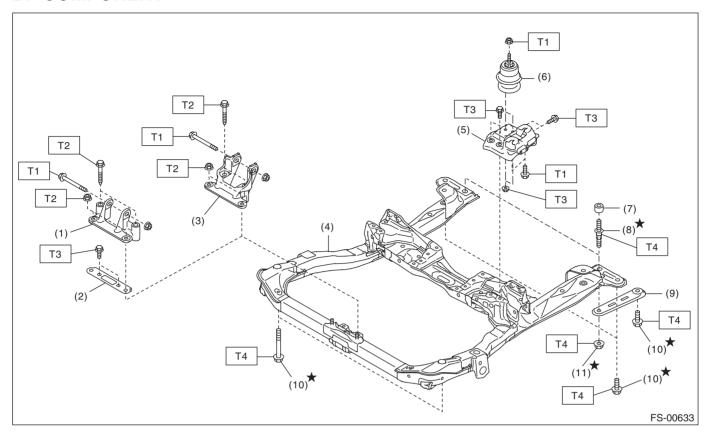


A - B = Positive: Toe-in, Negative: Toe-out

 α = Individual toe angles

^{*2:} Except for OUTBACK model

B: COMPONENT

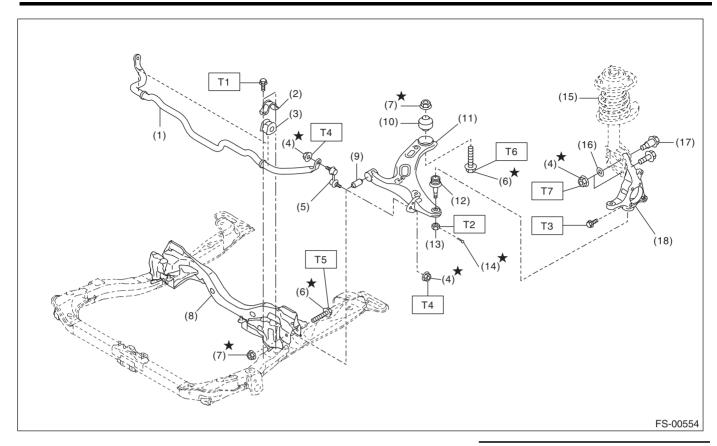


- (1) Front mounting bracket (H6 model)
- (2) Bracket
- (3) Front mounting bracket (H4 model)
- (4) Cradle
- (5) Main mounting bracket
- (6) Main cushion rubber

- (7) Stopper (OUTBACK model only)
- (8) Stud bolt
- (9) Stiffener
- (10) Bolt
- (11) Self-locking nut

Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: 45 (4.59, 33.2)
- T2: 60 (6.12, 44.3)
- T3: 65 (6.63, 47.9)
- T4: 75 (7.65, 55.3)



- (1) Stabilizer
- (2) Stabilizer bracket
- (3) Stabilizer bushing
- (4) Flange nut
- (5) Stabilizer link
- (6) Flange bolt
- (7) Self-locking nut
- (8) Cradle
- (9) Front bushing

- (10) Rear bushing
- (11) Front arm
- (12) Ball joint
- (13) Castle nut
- (14) Cotter pin
- (15) Front strut ASSY
- (16) Adjusting washer
- (17) Adjusting bolt
- (18) Front axle housing

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 25 (2.55, 18.4)

T2: 39 (3.98, 28.8)

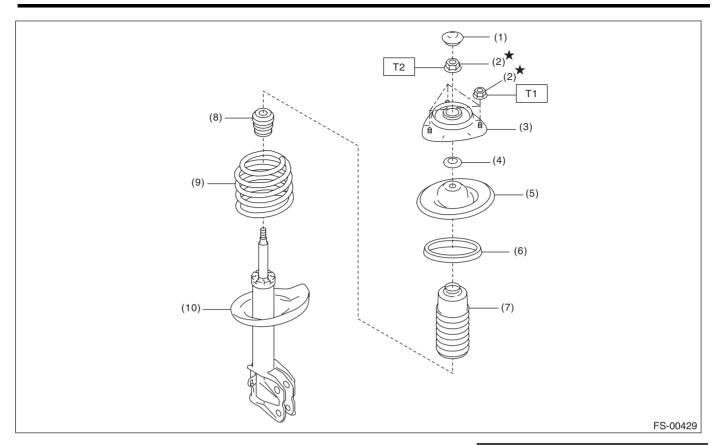
T3: 50 (5.10, 36.9)

T4: 60 (6.12, 44.3)

T5: 95 (9.69, 70.1)

T6: 140 (14.28, 103.3)

T7: 155 (15.81, 114.3)



(1)	Dust	seal
-----	------	------

- (2) Self-locking nut
- (3) Strut mount
- (4) Spacer
- (5) Upper spring seat

(6) Rubber seat (OUTBACK model only)

- (7) Dust cover
- (8) Helper (except for Bilstein strut)
- (9) Coil spring
- (10) Strut

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 20 (2.04, 14.8) T2: 55 (5.61, 40.6)

C: CAUTION

- Wear appropriate work clothing, including a helmet, protective goggles and protective shoes when performing any work.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Use SUBARU genuine grease etc. or equivalent. Do not mix grease etc. of different grades or manufacturers.
- Before securing a part on a vise, place cushioning material such as wood blocks, aluminum plate, or cloth between the part and the vise.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- When the suspension-related components have been replaced, perform the adjustment of the steering angle sensor. <Ref. to VDC-20, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST99099AJ000	99099AJ000	ENGINE HANGER	Used for hanging power unit. Used together with CHAIN BALANCER (99099AJ010).
ST99099AJ010	99099AJ010	CHAIN BALANCER	Used for hanging power unit. Used together with ENGINE HANGER (99099AJ000).
ST10004AA180	10004AA180 (SUBARU genuine part)	HANGER CP ENGINE RR	 Used for hanging power unit. For H4 non-turbo model. SUBARU genuine part
ST18360AA020	18360AA020	HANGER	Used for hanging power unit. For H6 model.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	927680000	INSTALLER & REMOVER SET	Used for replacing front arm front bushing.
07.00700000			
ST-927680000	0000040000	DEMOVED.	
	20299AG000	REMOVER	 Used for replacing front arm rear bushing. Used together with BASE (20299AG010).
ST20299AG000			
	20299AG010	BASE	 Used for replacing front arm rear bushing. Used together with REMOVER (20299AG000).
ST20299AG010			
	20299AG020	STUD BOLT SOCKET	Used for removing and installing the stud bolt for front arm installing portion.
ST20299AG020			
STEUZESANGUZU	20399AG000	STRUT MOUNT SOCKET	Used for disassembling and assembling strut mount.
ST20399AG000			

2. GENERAL TOOL

TOOL NAME	REMARKS
Alignment gauge	Used for measuring wheel alignment.
Alignment gauge adapter	Used for measuring wheel alignment.
Turning radius gauge	Used for measuring wheel alignment.
Toe-in gauge	Used for toe-in measurement.
Chain sling	 Used for hanging power unit. Diameter: 6 mm (0.24 in) or 6.3 mm (0.25 in) Length: 0.8 — 1 m (2.6 — 3.3 ft) Chain inner width: 8.5 mm (0.33 in) or more Chain external width: 23.5 mm (0.93 in) or less Load capacity: 1.2 t (2,646 lb) or more
Shackle	 Two units used for hanging power unit. Attached to both end of chain sling and connected to engine hook. Load capacity: 250 kg (551 lb) or more
Sling belt	 Used to remove and install the cradle. Width: 35 — 40 mm (1.38 — 1.57 in) Length: 2 m (6.6 ft) Load capacity: 1 t (2,205 lb) or more
Shackle	Used to remove and install the cradle.Load capacity: 500 kg (1,103 lb) or more
Tie-rod ball joint puller	Used for disconnecting tie-rod end.
Dial gauge	Used for damper strut measurement.
Coil spring compressor	Used for strut assembly/disassembly.

2. Wheel Alignment

A: INSPECTION

Check the following items before performing the wheel alignment measurement.

- Tire inflation pressure
- Uneven wear of RH and LH tires, or difference of sizes
- Tire runout
- Excessive play and wear of ball joint
- Excessive play and wear of tie-rod end
- Excessive play of wheel bearing
- Right and left wheel base imbalance
- Deformation and excessive play of steering link
- Deformation and excessive play of suspension parts

Check, adjust and measure the wheel alignment in accordance with the following procedures.

1	Wheel arch height (front and rear wheels)	Inspection: <ref. alignment.="" fs-13,="" inspection,="" rear="" to="" toe-in,="" wheel=""></ref.>	
	<u> </u>		
2	Camber (front and rear wheels)	Inspection: <ref. alignment.="" camber,="" fs-11,="" inspection,="" to="" wheel=""> Adjustment: <ref. adjust-ment,="" alignment.="" camber,="" front="" fs-14,="" to="" wheel=""></ref.></ref.>	
	\		
3	Caster (front wheel)	Inspection: <ref. alignment.="" caster,="" fs-11,="" inspection,="" to="" wheel=""></ref.>	
	<u></u>	,	
4	Steering angle	Inspection: <ref. alignment.="" front="" fs-12,="" inspection,="" to="" toe-in,="" wheel=""> Adjustment: <ref. adjust-ment,="" alignment.="" angle,="" fs-15,="" steering="" to="" wheel=""></ref.></ref.>	
	↓	,	
5	Front wheel toe-in	Inspection: <ref. alignment.="" angle,="" fs-12,="" inspection,="" steering="" to="" wheel=""> Adjustment: <ref. adjustment,="" alignment.="" front="" fs-16,="" to="" toe-in,="" wheel=""></ref.></ref.>	
	<u></u>	,	
6	Rear wheel toe-in	Inspection: <ref. alignment.="" arch="" fs-10,="" height,="" inspection,="" to="" wheel=""> Adjustment: <ref. adjustment,="" alignment.="" fs-17,="" rear="" to="" toe-in,="" wheel=""></ref.></ref.>	
\			
7	Thrust angle	Inspection: <ref. alignment.="" angle,="" fs-13,="" inspection,="" thrust="" to="" wheel=""> Adjustment: <ref. adjust-="" alignment.="" angle,="" fs-18,="" ment,="" thrust="" to="" wheel=""></ref.></ref.>	